AP-001C

# SERVICE MANUAL
## PARTS LIST

## MODEL AP-001C

AKAI

ALSO APPLICABLE TO MODEL AP-001

# TURNTABLE

# MODEL AP-001C

ALSO APPLICABLE TO MODEL AP-001

SECTION 1 SERVICE MANUAL . . . . . . . . . . . . . . . . . . . . . . . . . 1
SECTION 2 PARTS LIST . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 21

SECTION 1

# SERVICE MANUAL

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# I. TECHNICAL DATA

## 1. TURNTABLE SECTION

| | |
|---|---|
| TURNTABLE | 300 mm aluminium alloy die cast |
| DRIVE SYSTEM | Belt drive |
| MOTOR | 4-pole synchronous motor |
| SPEED | 33-1/3 and 45 rpm |
| WOW & FLUTTER | 0.06% WRMS |
| SIGNAL TO NOISE RATIO | Better than 50 dB |

## 2. TONE ARM SECTION

| | |
|---|---|
| TONE ARM | Static-balanced type stainless steel tubular arm with inside force canceler and lateral balance weight |
| ARM LENGTH | 220 mm |
| STYLUS PRESSURE ADJUSTMENT RANGE | 0 to 4 grams |
| APPLICABLE CARTRIDGE WEIGHT | 4 to 10 grams (10 to 15 grams using sub-weight) |
| ARM LIFTER | Oil damped |
| OVERHANG | 15 mm |
| SHELL WEIGHT | 8.0 grams |

## 3. CARTRIDGE SECTION

| | |
|---|---|
| CARTRIDGE | VM (dual magnet type) Audio Technica Model AT-11 with 0.7 mil spherical diamond stylus.<br>Model AP-001C only. (Model AP-001 does not include cartridge) |
| FREQUENCY RESPONSE | 15 Hz to 25,000 Hz |
| OUTPUT VOLTAGE | 4 mV (1,000 Hz 50 mm/sec) |
| CHANNEL SEPARATION | 20 dB (1,000 Hz) |
| OPTIMUM STYLUS PRESSURE | 2.5 grams |
| REQUIRED LOAD IMPEDANCE | 47k to 100 k ohms |
| WEIGHT | 5.5 grams |

## 4. GENERAL SPECIFICATIONS

| | |
|---|---|
| POWER REQUIREMENT | CSA Models .................... 120V, 60 Hz<br>CEE Models .................... 220V, 50 Hz<br>Other Models .................. 110V/220V, 50/60 Hz and 240V, 50 Hz |
| DIMENSIONS | 440(W) x 140(H) x 350(D) mm<br>(17.3" x 5.5" x 13.8") |
| WEIGHT | 6.3 kg (13.9 lbs.) |

**NOTE:** For improvement purposes, specifications and design are subject to change without notice.

# II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

1

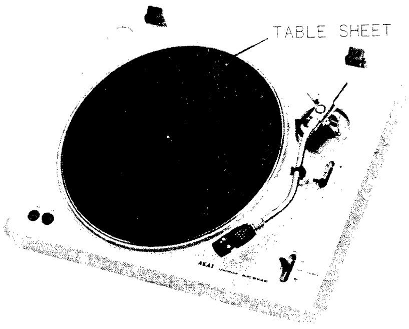
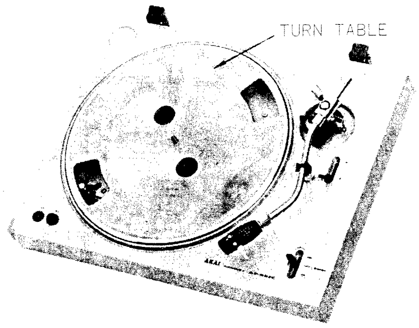


TABLE SHEET

2



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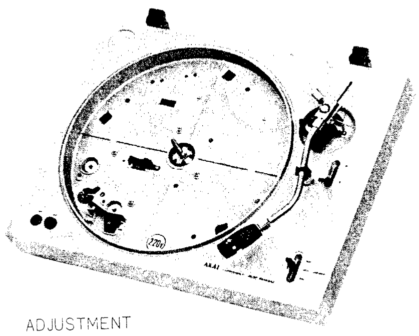
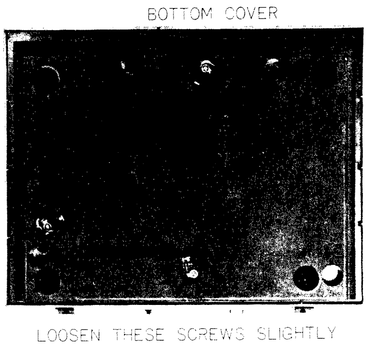
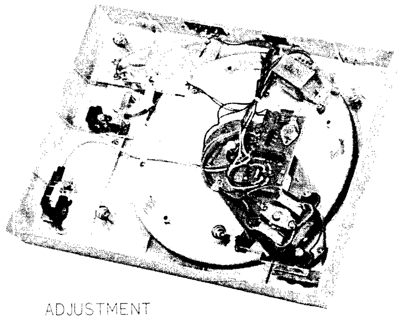

ADJUSTMENT

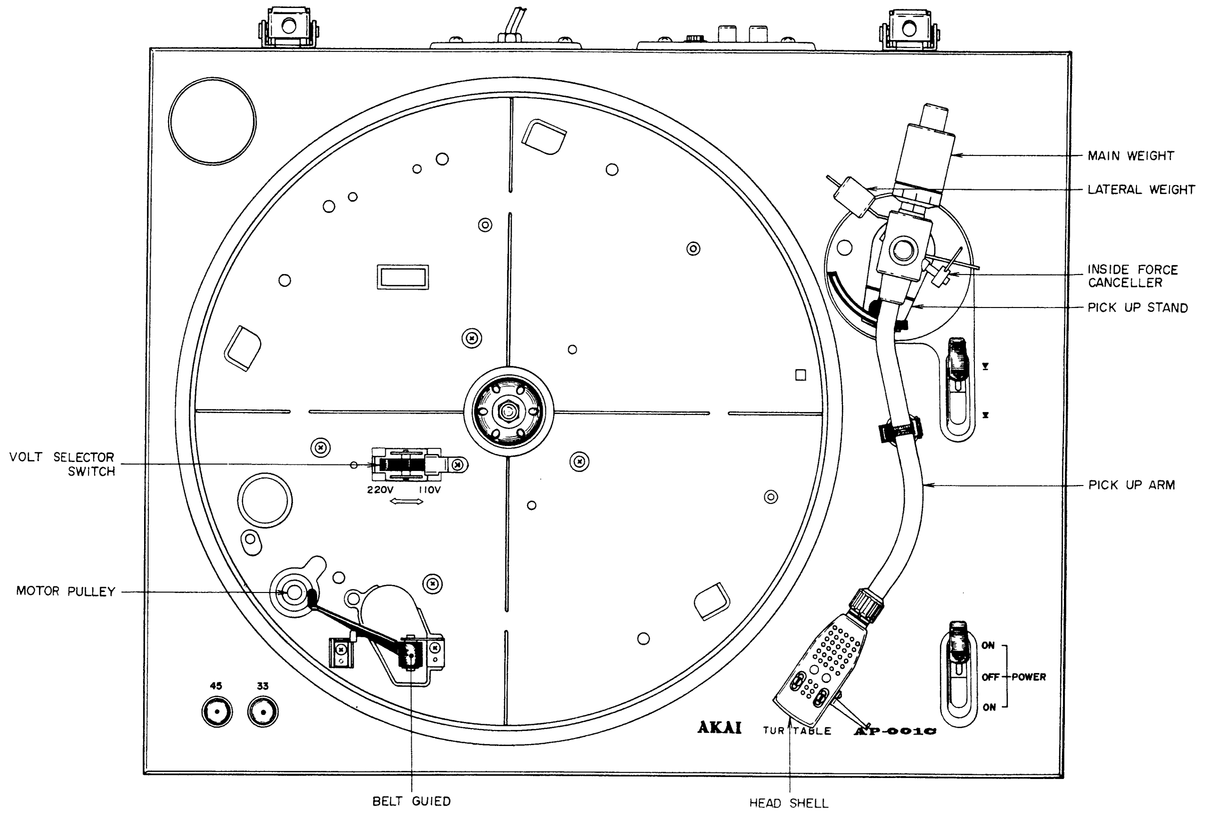
4

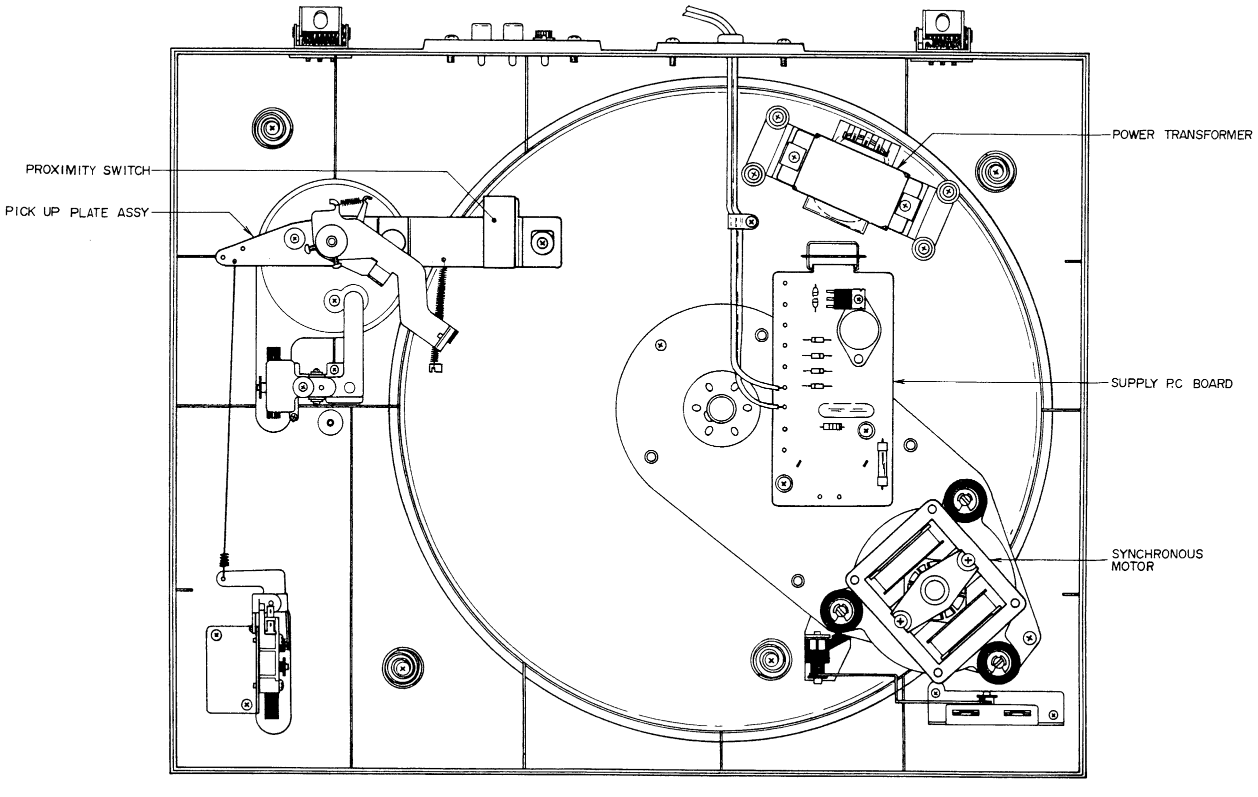

BOTTOM COVER
LOOSEN THESE SCREWS SLIGHTLY

5


ADJUSTMENT

# III. ARRANGEMENT OF PRINCIPAL PARTS


MAIN WEIGHT
LATERAL WEIGHT
INSIDE FORCE CANCELLER
PICK UP STAND
PICK UP ARM
VOLT SELECTOR SWITCH
220V
110V
MOTOR PULLEY
45
33
ON
OFF
ON
POWER
AKAI TURTABLE AP-001C
BELT GUIED
HEAD SHELL


POWER TRANSFORMER
PROXIMITY SWITCH
PICK UP PLATE ASSY
SUPPLY P.C BOARD
SYNCHRONOUS MOTOR

# IV. AUTO STOP POSITION ADJUSTMENT

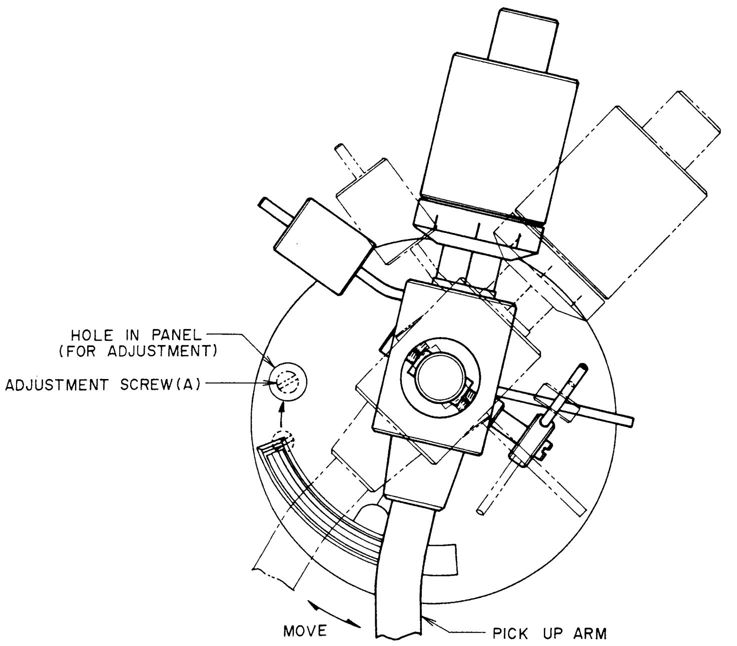


Fig. 1

Remove the rubber plug on panel toward the rear part of the pick up arm. When the pick up arm is moved as shown in Fig. 1, Adjustment Screw (A) becomes accessible through the hole from which the rubber plug has been removed. When Adjustment Screw (A) is turned clockwise, stop position will be advanced and when turned counter-clockwise, stop position will be delayed.

Use a 30 cm record as standard and adjust stop position as follows with Adjustment Screw (A).

For adjusting toward outer circumference turn clockwise.

For adjusting toward inner circumference turn counter-clockwise.

If only proper inner or outer adjustment can be attained, this means that adjustment at some other place is necessary. After source of trouble has been located and corrected, re-adjust adjustment screw (A).

NOTE:
1. Because of one adjustment screw only, stop position of 30 cm 17 cm record will be the same.
2. After adjustment, be sure to re-install rubber plug.

# V. CYCLE CHANGE (MOTOR PULLEY REPLACEMENT)

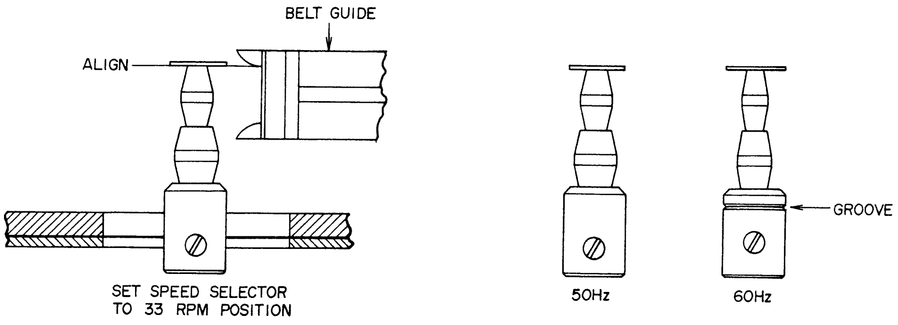

BELT GUIDE
ALIGN
SET SPEED SELECTOR
TO 33 RPM POSITION
GROOVE
50Hz
60Hz

Fig. 2

50 Hz and 60 Hz cycle change is effected by changing the motor pulley.
50 Hz and 60 Hz differentiation can be determined by the groove on the 60 Hz pulley. While viewing horizontally as shown in Fig. 2, install so that the lower part of the motor pulley brim and the lower part of the belt guide are lined up. Set speed selector to 33 rpm position, install the belt and switch on power. If a rumbling noise from the belt can be heard and speed changing is not smooth, adjust installation position of motor pulley.

# VI. PLAYER CARE

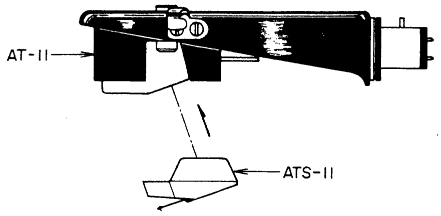


Fig. 3

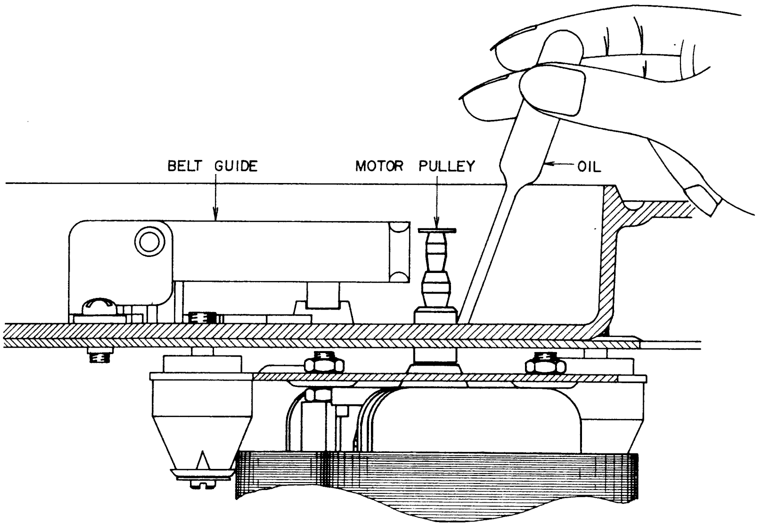


Fig. 4

## 1. LIFE OF STYLUS

The lifetime of stylus is about 500 hrs. of use (both sides of about 500 30 cm LP records). If the stylus becomes old, because the record will be damaged and tone quality will become inferior, be sure to replace as soon as is needed. If records on which dust is allowed to accumulate are played, the stylus will wear especially fast and the record surface will be scratched. Therefore, please be sure to keep record clean by wiping and cleaning the record grooves with water soaked gauze. Also if dust adheres to the turntable mat, as this will cause the record to become dirty easily, the mat should also be kept clean.

## 2. STYLUS CHANGE

When replacing stylus, be sure that the stylus (ATS-11) is inserted properly in the direction of the arrow mark shown in Fig. 3 and fits into cartridge firmly. Use only model ATS-11 stylus which is for use in model AT-11 cartridge.

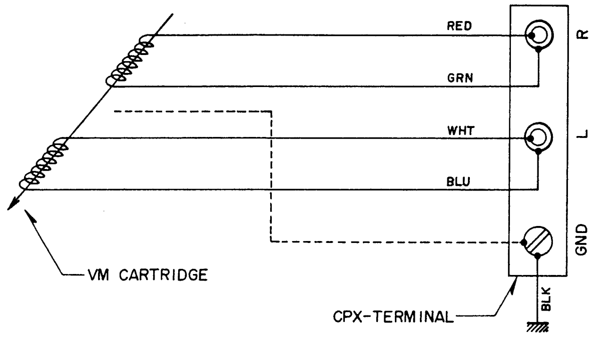
## 3. LUBRICATION

Because for rotating parts and parts which rub together during operation, oilless metal and the best grease or oil is used, your machine will not need lubrication for some time. About once per year, use standard accessory player oil, and apply one or two drops to the motor shaft as shown in Fig. 4. In case you do not have player oil, use #60 spindle oil or a high grade machine oil. If used continually for business purposes, etc., oil about once or twice per month.

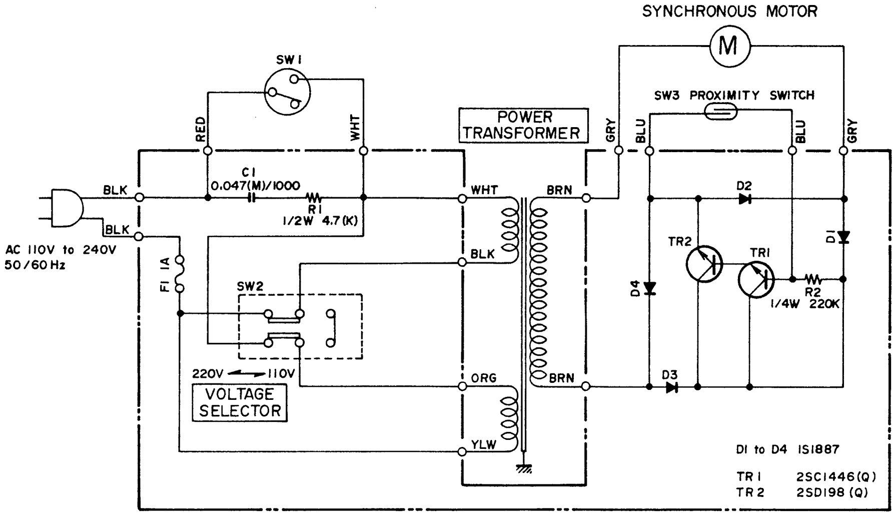
CAUTION: Following lubrication, because oil will adhere to the drive belt and pulley and to the turntable etc., wipe the oil off of these parts with a cloth to which a little carbon tetrachloride or thinner (benzine can be also be used) has been applied.

# VII. BLOCK DIAGRAM

## 1. CARTRIDGE

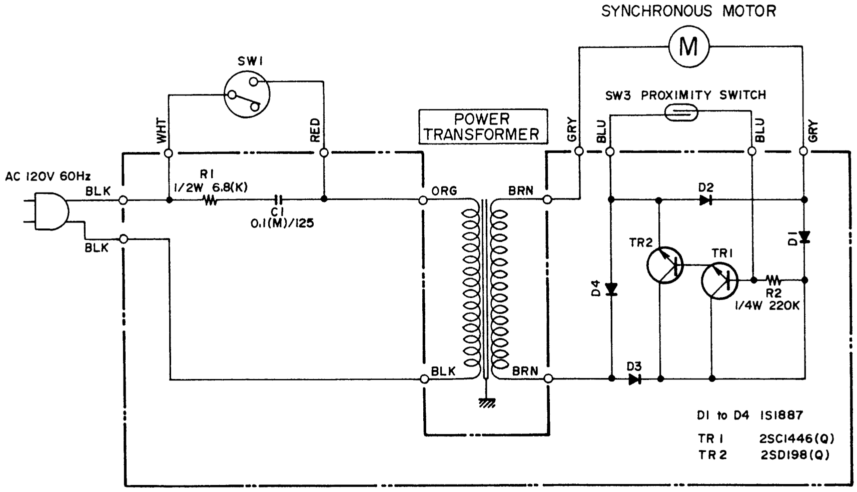

RED
GRN
WHT
BLU
R
L
GND
BLK
VM CARTRIDGE
CPX-TERMINAL

## 2. SWITCHABLE MODELS

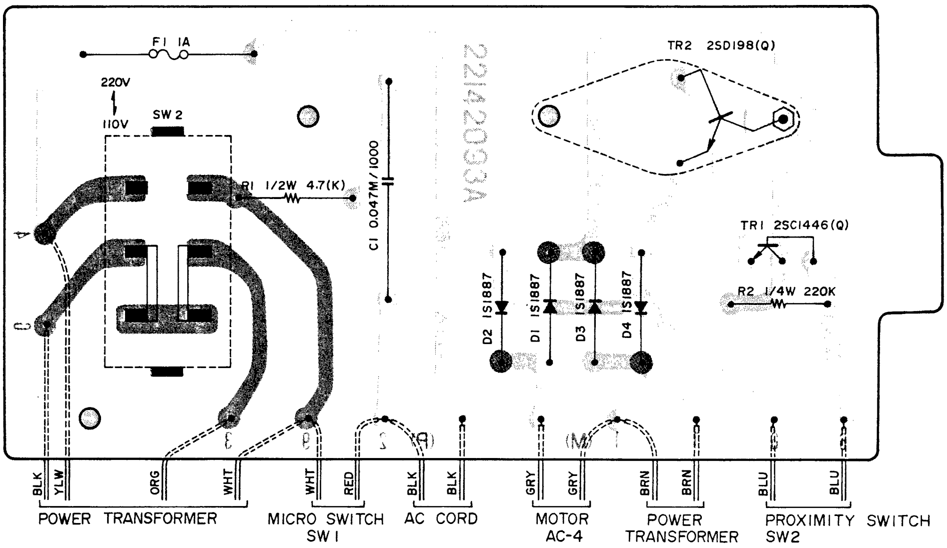

SYNCHRONOUS MOTOR
M
SW3 PROXIMITY SWITCH
SW1
RED
WHT
POWER TRANSFORMER
GRY
BLU
BLU
GRY
C1
0.047(M)/1000
R1
1/2W 4.7(K)
BLK
BLK
AC 110V to 240V
50/60 Hz
F1 1A
SW2
WHT
BLK
BRN
D2
D1
TR2
TR1
D4
R2
1/4W 220K
220V — 110V
VOLTAGE SELECTOR
ORG
BRN
D3
YLW
D1 to D4 1S1887
TR1 2SC1446(Q)
TR2 2SD198 (Q)

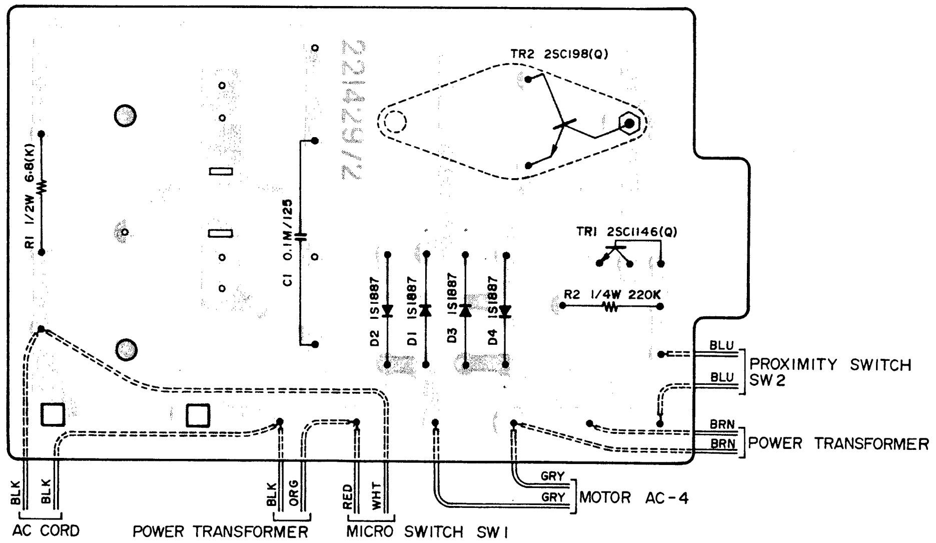
SUPPLY P.C BOARD NO. 22370139

## 3. CSA MODELS

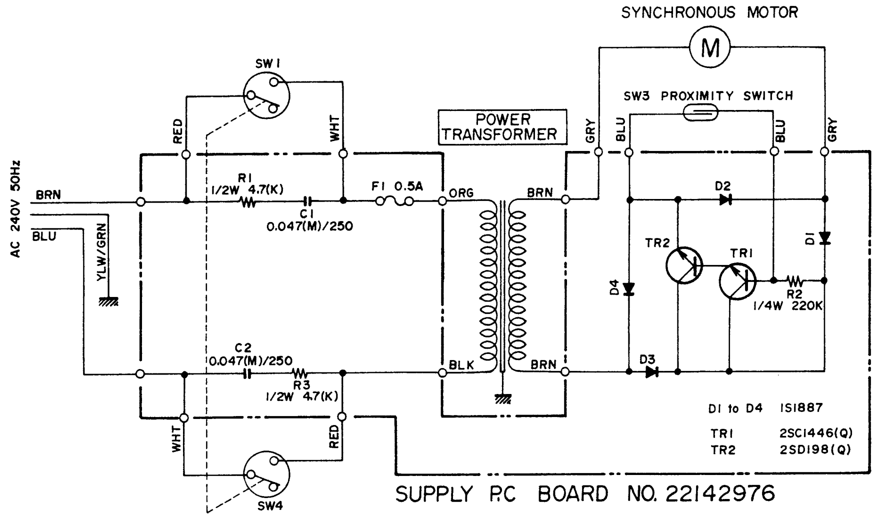

SYNCHRONOUS MOTOR
M
SW1
SW3 PROXIMITY SWITCH
WHT
RED
POWER TRANSFORMER
GRY
BLU
BLU
GRY
AC 120V 60Hz
BLK
R1
1/2W 6.8(K)
C1
0.1(M)/125
ORG
BRN
D2
D1
BLK
TR2
TR1
D4
R2
1/4W 220K
BLK
BRN
D3
D1 to D4 1S1887
TR1 2SC1446(Q)
TR2 2SD198(Q)

SUPPLY P.C BOARD NO. 22142972

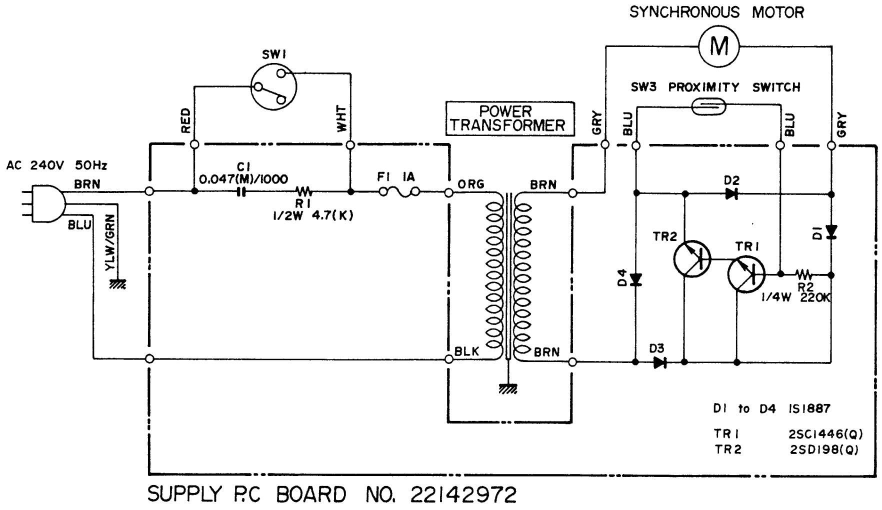

F1 1A
220V
110V
SW 2
R1 1/2W 4.7(K)
C1 0.047M/1000
2214209 3A
TR2 2SD198(Q)
TR1 2SC1446(Q)
R2 1/4W 220K
D2 1S1887
D1 1S1887
D3 1S1887
D4 1S1887
BLK
YLW
ORG
WHT
WHT
RED
BLK
BLK
GRY
GRY
BRN
BRN
BLU
BLU
POWER TRANSFORMER
MICRO SWITCH SW 1
AC CORD
MOTOR AC-4
POWER TRANSFORMER
PROXIMITY SWITCH SW2


221429/2
TR2 2SC198(Q)
R1 1/2W 6.8(K)
C1 0.1M/125
TR1 2SC1146(Q)
R2 1/4W 220K
D2 1S1887
D1 1S1887
D3 1S1887
D4 1S1887
BLU
BLU
PROXIMITY SWITCH SW 2
BRN
BRN
POWER TRANSFORMER
GRY
GRY
MOTOR AC-4
BLK
BLK
AC CORD
BLK
ORG
POWER TRANSFORMER
RED
WHT
MICRO SWITCH SW 1

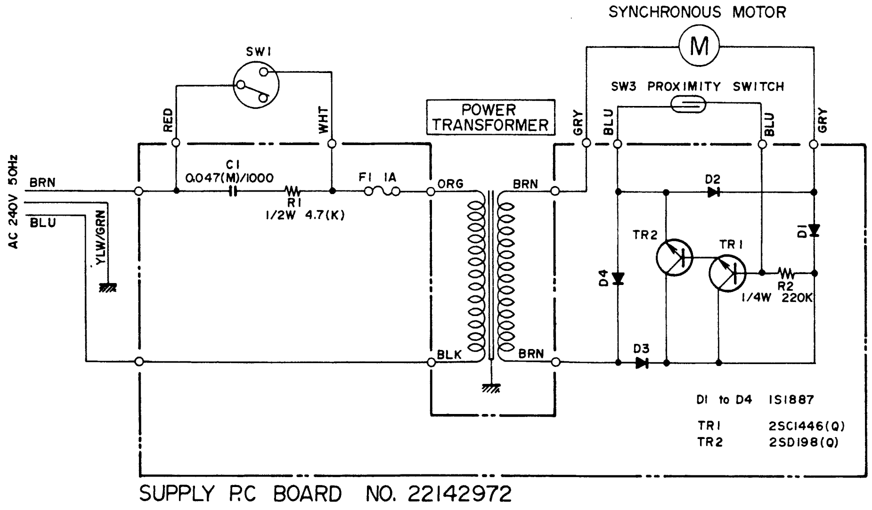
## 4. BSI MODELS

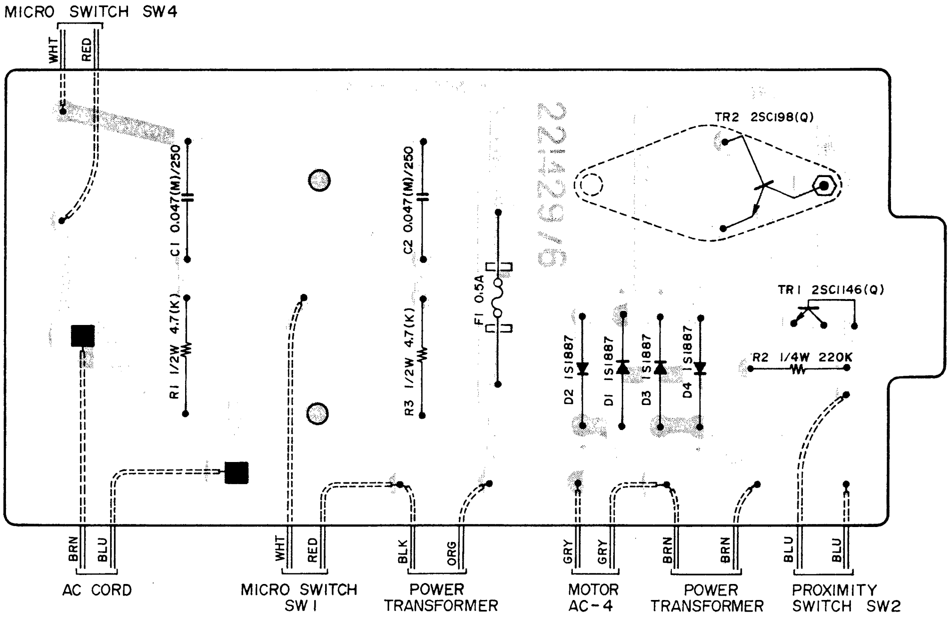

SYNCHRONOUS MOTOR
M
SW3 PROXIMITY SWITCH
SW1
SW4
RED
WHT
POWER TRANSFORMER
GRY
BLU
AC 240V 50Hz
BRN
BLU
YLW/GRN
R1 1/2W 4.7(K)
C1 0.047(M)/250
F1 0.5A
ORG
BRN
BLK
C2 0.047(M)/250
R3 1/2W 4.7(K)
D1
D2
D3
D4
TR1
TR2
R2 1/4W 220K
D1 to D4 1S1887
TR1 2SC1446(Q)
TR2 2SD198(Q)
SUPPLY P.C BOARD NO. 22142976

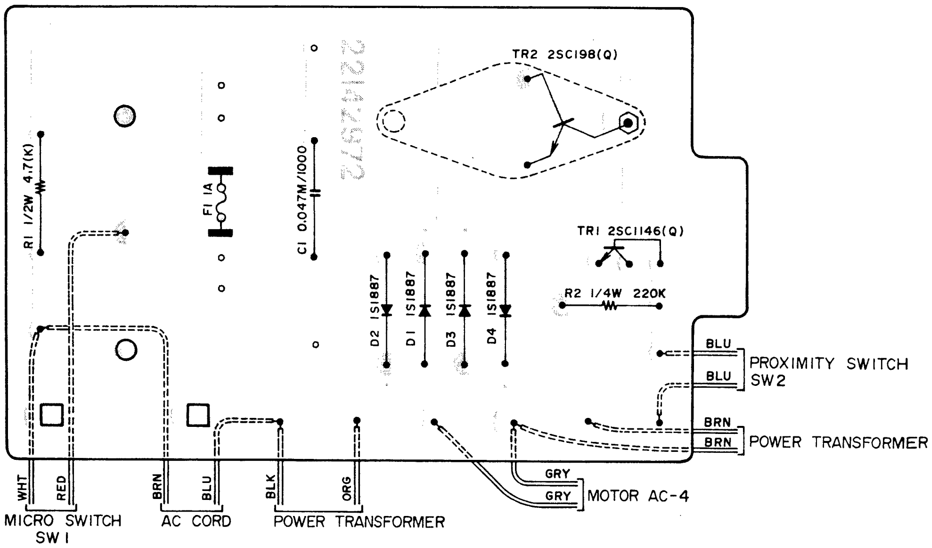
## 5. AST MODELS


SYNCHRONOUS MOTOR
M
SW3 PROXIMITY SWITCH
SW1
RED
WHT
POWER TRANSFORMER
GRY
BLU
AC 240V 50Hz
BRN
BLU
YLW/GRN
C1 0.047(M)/1000
R1 1/2W 4.7(K)
F1 1A
ORG
BRN
BLK
D1
D2
D3
D4
TR1
TR2
R2 1/4W 220K
D1 to D4 1S1887
TR1 2SC1446(Q)
TR2 2SD198(Q)
SUPPLY P.C BOARD NO. 22142972

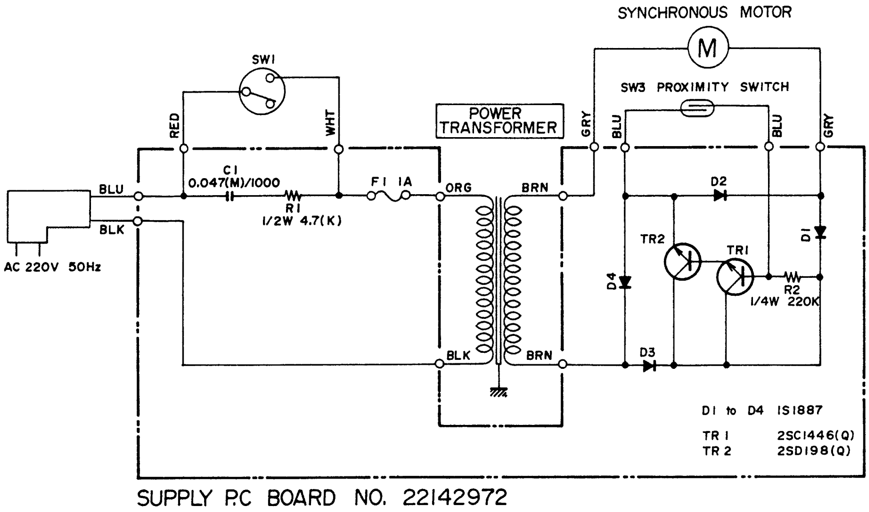
## 6. OTHER MODELS

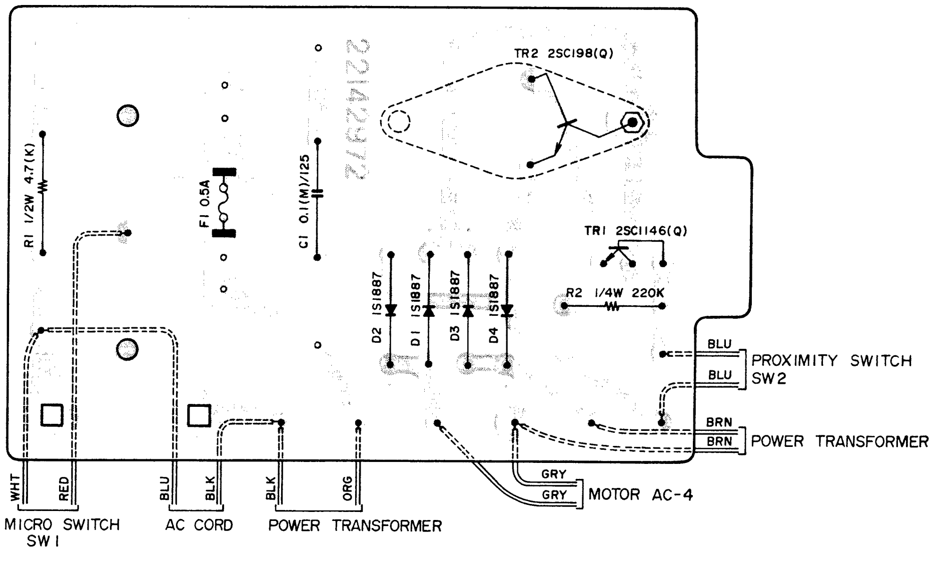

SYNCHRONOUS MOTOR
M
SW3 PROXIMITY SWITCH
SW1
RED
WHT
POWER TRANSFORMER
GRY
BLU
AC 240V 50Hz
BRN
BLU
YLW/GRN
C1 0.047(M)/1000
R1 1/2W 4.7(K)
F1 1A
ORG
BRN
BLK
D1
D2
D3
D4
TR1
TR2
R2 1/4W 220K
D1 to D4 1S1887
TR1 2SC1446(Q)
TR2 2SD198(Q)
SUPPLY P.C BOARD NO. 22142972


MICRO SWITCH SW4
WHT
RED
221429/6
TR2 2SC198(Q)
C1 0.047(M)/250
C2 0.047(M)/250
F1 0.5A
TR1 2SC1146(Q)
R1 1/2W 4.7(K)
R3 1/2W 4.7(K)
D2 1S1887
D1 1S1887
D3 1S1887
D4 1S1887
R2 1/4W 220K
BRN
BLU
AC CORD
WHT
RED
MICRO SWITCH SW1
BLK
ORG
POWER TRANSFORMER
GRY
GRY
MOTOR AC-4
BRN
BRN
POWER TRANSFORMER
BLU
BLU
PROXIMITY SWITCH SW2


221429/2
TR2 2SC198(Q)
R1 1/2W 4.7(K)
F1 1A
C1 0.047M/1000
TR1 2SC1146(Q)
D2 1S1887
D1 1S1887
D3 1S1887
D4 1S1887
R2 1/4W 220K
BLU
BLU
PROXIMITY SWITCH SW2
BRN
BRN
POWER TRANSFORMER
GRY
GRY
MOTOR AC-4
WHT
RED
MICRO SWITCH SW1
BRN
BLU
AC CORD
BLK
ORG
POWER TRANSFORMER

## 7. CEE MODELS


SYNCHRONOUS MOTOR
M
SW1
RED
WHT
POWER TRANSFORMER
GRY
BLU
SW3 PROXIMITY SWITCH
BLU
GRY
BLU
BLK
AC 220V 50Hz
C1
0.047(M)/1000
R1
1/2W 4.7(K)
F1 1A
ORG
BRN
D2
D1
TR2
TR1
D4
R2
1/4W 220K
BLK
BRN
D3
D1 to D4 1S1887
TR 1 2SC1446(Q)
TR 2 2SD198(Q)
SUPPLY P.C BOARD NO. 22142972


TR2 2SC198(Q)
R1 1/2W 4.7(K)
F1 0.5A
C1 0.1(M)/125
TR1 2SC1146(Q)
D2 1S1887
D1 1S1887
D3 1S1887
D4 1S1887
R2 1/4W 220K
BLU
BLU
PROXIMITY SWITCH SW2
BRN
BRN
POWER TRANSFORMER
GRY
GRY
MOTOR AC-4
WHT
RED
BLU
BLK
BLK
ORG
MICRO SWITCH SW1
AC CORD
POWER TRANSFORMER

# VIII. TROUBLE SHOOTING CHART

| Condition | Explanation | Confirmation | Source | Countermeasure |
|---|---|---|---|---|
| Poor tone quality | 1. Distortion (When using new record) | 1. Distortion persists after changing stylus and confirming normal pick-up arm operation. (Amp. Speaker normal) | Faulty cartridge. | Replace cartridge |
| | | 2. Crackling sound even when playing new record. Especially vague at high range. | Worn stylus. | Replace stylus. |
| | | 3. A crunching sound exists and there is a sudden change in sound level. Also the level of right and left differs greatly. | Bent stylus. | |
| | | 4. Sound is vague or distortion exists. | Dust adhering to stylus. | Clean stylus. |
| | | 5. Stylus jumps. | Insufficient pressure. | Readjust stylus pressure. |
| | | 6. Stylus sinks to far into cartridge body during record playback. | Too much pressure. | |
| | 2. Hum noise. | 1. When pick up arm or player body is touched with your hand, hum noise increases. | Faulty grounding between cartridge and amp. input or turntable and amp. | Replace or repair ground wire. |
| | | 2. A hum is emitted from one channel (or both channels). | Faulty pin plug Connection. | Connect perfectly |
| | | 3. Hum is altered by changing position of lead wire from pick-up. | Lead wire from pick-up and source wiring is too close together. | Move lead wire to obtain minimum hum. |
| | 3. Left/right sound separation poor. | Using a monaural record, left/right sound scatters and is not emitted from the center. | The plus and minus terminals are reversed on one side at cartridge out-put pin and shell pin connection or faulty cartridge. | Connect plus and minus correctly.<br>Replace cartridge. |
| | 4. Distortion at one channel only. | 1. Observe pick-up arm head during record performance. | Bent pick-up head. | Replace pick-up arm. |
| | | 2. After pick-up arm side pressure and zero balance adjustment, pick-up arm does not move smoothly by means of inside force canceller. | Pick-up arm rotating shaft faulty. | Replace pick-up arm assy. |
| | | 3. Pick-up arm heavy or catches when moved to left and right by hand. | Installation of pick-up plate assy faulty. | Correct pick-up plate installation height as specified. |
| | 5. No sound | 1. Check pin plug cord lead-through with tester. | Disconnected or broken wire. | Replace pin plug cord. |
| | | 2. Check cartridge terminal DC resistance with tester. (L ch, R ch) | Broken or shorted wire inside cartridge. | Replace cartridge. |
| Unusual noise | 1. Mechanical noise (direct noise) | 1. Belt contacting belt guide. | Faulty motor pulley height. | Adjust height of motor pulley. |
| | | 2. Observe motor pulley during revolutions. | Variation in motor pulley. | Replace motor pulley. |
| | | 3. During revolutions, vibration exists or noise is audible. | Faulty motor. | Replace motor. |
| | | 4. During motor rotation, if arm or table mount is touched with your hand, vibration is evident. | Faulty installation of motor or variation in motor cushions. | Adjust motor installation position.<br>Replace motor cushion. |

| Condition | Explanation | Confirmation | Source | Countermeasure |
|---|---|---|---|---|
| | 2. Electrical noise. (from speaker) | 1. Sometimes shock noise and hum is emitted.<br>Interference when lead wire is moved or no sound periodically. | Lead wire leak or lead wire is broken or disconnected.<br>Faulty pin plug cord connection. | Repair or replace lead wire.<br>Make proper pin plug cord connection. |
| | | 2. Interference when upper part of shell is lightly tapped. | Defective cartridge.<br>Faulty cartridge terminal connection. | Replace cartridge.<br>Make proper lead wire connection. |
| | | 3. Vibration and noise from motor during revolutions. | Faulty motor. | Replace motor. |
| Turntable does not rotate. (or rotation is unstable) | 1. Electrical circuit problem. | 1. Check Supply P.C Board fuse with tester. | Fuse blown. | Replace with proper fuse. |
| | | 2. Check Proximity switch lead-through with tester. | Shorted. | Replace Proximity switch. |
| | | 3. Check power switch lead-through with tester. | Open. | Replace micro switch. |
| | | 4. Check main lead wires with tester. | Disconnected or broken lead wire. | Replace or repair lead wire. |
| | | 5. Check motor coils with tester. | Disconnected or broken wire. | Replace motor. |
| | | 6. When rotor is rotated by hand, it catches or rotation is not light and smooth. | Insufficient oil. | Lubricate rotor shaft and clean. |
| | 2. Table shaft out of order. | When turntable in rotated by hand it seems heavy.<br>Unusual noise and too much rattle (with belt removed). | Insufficient oil. | Lubricate table shaft and bearing.<br>Replace table shaft. |
| | 3. Speed change mechanism defective. | 1. Slippage between belt, motor pulley and turntable. | Worn out belt.<br>Oil adhering to belt. | Replace belt.<br>Clean with carbon tetrachloride or alcohol. |
| | | 2. Belt does not run on middle of motor pulley (drum-like part). | Faulty motor pulley height. | Adjust motor pulley height and motor slant. |
| | | 3. Belt rubbing noise. | | |
| | 4. Revolutions too slow. (or uneven) | Check for variation in shape of belt and whether dust is adhering to belt, motor pulley and turntable. | Variation of belt.<br>Dust. | Replace belt.<br>Clean with carbon tetrachloride or alcohol |
| Operation of manual lifter faulty. (at record performance) | 1. Lifting or lowering takes place too fast when manipulating the lifter manually. | 1. Observe plate spring. | Variation in shape or bent. | Repair or replace. |
| | | 2. Check lifter shaft silicon oil. | Insufficient silicon oil. | Apply silicon oil (200000CS). |
| | 2. Lifting or lowering is too slow when manipulating the lifter manually. | 1. Check strength of pressure coil spring. | Pressure coil spring has lost strength. | Replace pressure coil spring. |
| | | 2. Check lifter silicon oil. | Too much oil. | Wipe off oil. |
| Position of arm auto stop faulty. | 1. Too soon. | Auto stop takes place too soon (17 cm, 30 cm record). | Faulty adjustment. | Use a 30 cm record as standard and adjust by turning adjustment screw (A) counter-clockwise. |
| | 2. Too late. | Auto stop takes place too late (17 cm, 30 cm record). | Faulty adjustment | Use a 30 cm record as standard and adjust by turning adjustment screw (A) clock-wise. |

| Condition | Explanation | Confirmation | Source | Countermeasure |
|---|---|---|---|---|
|  | 3. Auto stop of either 17 cm or 30 cm record sooner or later than normal auto stop. | When the bottom panel is removed and the movement of the aluminum plate (switch holder plate) on which the Proximity Switch is installed is changed by manipulating the change lever, the stopper screw sticks to part of the square hole in the aluminum plate and does not move freely. | Faulty connection pole or adjustment. | Replace connection pole and also change holes (choose the most suitable of the 3 holes) at tip of aluminum plate to which connection pole is connected. |
|  | 4. Specified stop position. | 30 cm, 25 record operation begins between 115$\phi$ and 109$\phi$ (center 56R).<br>17 cm record operation begins between 106$\phi$ and 98$\phi$ (center 51R). |  |  |

# MEMO

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## SECTION 2

# PARTS LIST

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2. ASSEMBLY BLOCK (2) ............................ 24
3. CABINET BLOCK ............................ 27
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## HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read List

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

**12-115x**

Schematic Diagram Number of individual manufactured part. (not required for parts order)

Quantity of particular part required.

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
|  | **FLYWHEEL BLOCK #13** |  |  |  |
| 12-115x | 800425 | Flywheel Block Assy. Comp. | RDG #13 | 1 |
| 12-116 | 244506 | Flywheel Only | RD-233 | 1 |
| 12-117x | 244754 | Felt, Flywheel | RD-275 | 1 |
| 12-118 | 251324 | Main Metal Case | RD-236 | 1 |
| 12-119 | 253080 | Main Metal | RD-237 | 1 |

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
5. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

## 1) ASSEMBLY BLOCK (1)

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | **CABINET BLOCK** | | | |
| 1-1 | TP710021 | Rubber Cap | 2088176800 | 1 |
| 1-2 | TP720257 | Rubber Cushion | 2275683000 | 2 |
| | **SPEED CHANGE BRACKET BLOCK** | | | |
| 1-3 | BZ709323 | Belt Guide Boock Comp. AP-001/C | 2074690800 | 1 |
| 1-4 | TP709334 | Guard AP-001/C | 2074051900 | 1 |
| 1-5 | MB719008 | Belt AP-003 | 2072861100 | 1 |
| 1-6 | BM709356 | AC Motor Block Comp. AP-001/C | 2212547500 | 1 |
| 1-7 | MB709391 | Cushion Rubber AP-001/C | 2088172200 | 3 |
| 1-8 | MR709402 | Motor Pulley 50 Hz AP-001/C | 2071675000 | 1 |
| 1-9x | MR709413 | Motor Pulley 60 Hz AP-001/C | 2071675100 | 1 |
| 1-10 | MS709424 | Motor Hang Shaft (A) AP-001/C | 2076463000 | 1 |
| 1-11 | MS709435 | Motor Hang Shaft (B) AP-001/C | 2076463100 | 2 |
| 1-12 | TP709446 | Cushion Holder AP-001/C | 2074672100 | 3 |
| 1-13 | ZW712236 | 'E' Ring 4M | | 3 |
| | **PU ARM BLOCK** | | | |
| 1-14 | TP709457 | PU Arm AP-001/C | 2073174600 | 1 |
| 1-15 | BL719381 | Lifter Bar Block Comp. AP-003 | 2076165700 | 1 |
| 1-16 | MS709468 | Lifter Shaft AP-001/C | 2076469000 | 1 |
| 1-17x | ZG709470 | Cramp Coil Spring AP-001/C | 2070381800 | 1 |
| 1-18x | ZW712361 | 'E' Ring 3M | | 1 |
| 1-19 | BZ709481 | PU Rest Block Comp. AP-001/C | 2073871100 | 1 |
| 1-20 | TP719594 | Pick-up Stand AP-003 | 2073563700 | 1 |
| 1-21x | ZS712372 | Screw, cone point Flat Socket 40x10 | | 1 |
| 1-22x | ZS712653 | Tapping Screw Pan head 30x10 | | 3 |
| | **TURN TABLE BLOCK** | | | |
| 1-23 | TP709492 | Turn Table AP-001/C | 2072365300 | 1 |
| 1-24 | TP709503 | Table Sheet AP-001/C | 2072368600 | 1 |
| 1-25 | MV709514 | Table Shaft Holder AP-001/C | 2072568300 | 1 |
| 1-26 | ZW719043 | Special Nut AP-003 | 2079663100 | 1 |
| 1-27 | ZW712697 | Special Washer 101x170x10 | | 1 |
| 1-28 | ZS712765 | Screw, pan head 30x4x4 | | 1 |
| 1-29 | MS709525 | Table shaft AP-001/C | 2076468900 | 1 |
| | **LIFTER LEVER BLOCK** | | | |
| 1-30 | BL709536 | Lifter Lever Block Comp. AP-001/C | 2075179400 | 1 |
| 1-31 | SK715533 | Knob | 2283540100 | 2 |
| | **RECORD SELECT CAM BLOCK** | | | |
| 1-32 | BZ709547 | Record Select Cam Block Comp. AP-001/C | 2075772200 | 1 |
| | **ELECTRICAL PARTS BLOCK** | | | |
| 1-33 | ES718648 | Micro SW. AP-003 | 2214633500 | 1 |
| 1-34x | ES709806 | Micro SW. 5A 250V(SEMKO) | 2214033600 | 1 |
| 1-35x | ES709817 | Micro SW. 5A 250V (BSI) | 2214035100 | 2 |

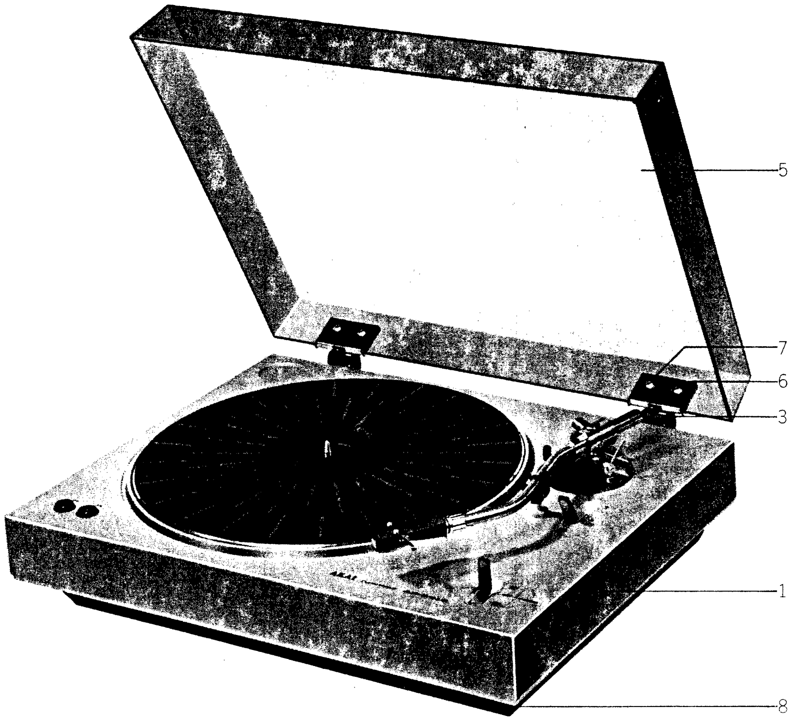
## 2) ASSEMBLY BLOCK (2)

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | **CABINET BLOCK** | | | |
| 2-1 | ZG709132 | Panel Spring (A) (Cone Type) AP-001/C | 2070382700 | 1 |
| 2-2 | ZG709143 | Panel Spring (B) BLUE (Cone Type) AP-001/C | 2070382800 | 1 |
| 2-3 | ZG709154 | Panel Spring (C) BLACK (Cone Type) AP-001/C | 2070382900 | 1 |
| 2-4 | ZG709165 | Panel Spring (D) RED (Cone Type) AP-001/C | 2070383000 | 1 |
| 2-5 | ZS712135 | Tapping Screw, pan head 40x8 | | 4 |
| 2-6 | TP720314 | Cushion | 2088180700 | 4 |
| 2-7 | TP720268 | Holder Plate | 2074690000 | 1 |
| 2-8 | ZS720281 | Screw, w/washer 3x10 (Special) | 2079477900 | 1 |
| 2-9 | TP720270 | Rubber Pad A | 2088180400 | 2 |
| 2-10 | TP720292 | Rubber Pad B | 2088180500 | 1 |
| 2-11 | TP720303 | Rubber Pad C | 2088180600 | 1 |
| | **SPEED CHANGE BRACKET BLOCK** | | | |
| 2-12 | BZ709312 | Speed Changing Bracket Block Comp. AP-001/C | 2073564800 | 1 |
| 2-13 | ZG718918 | Turn-over Spring AP-003 | 2277172000 | 1 |
| 2-14 | ZS712225 | Tapping Screw, pan head 30x8 | | 2 |
| 2-15 | SB631157 | Push Button E | CW-2014 | 2 |
| | **RECORD SELECT CAM BLOCK** | | | |
| 2-16 | TP709558 | Connecting Pole AP-001/C | 2076468800 | 1 |
| 2-17 | TP709560 | SW. Holder AP-001/C | 2074687000 | 1 |
| 2-18 | ZG709571 | Pull Coil Spring AP-001/C | 227178200 | 1 |
| 2-19 | ZW713586 | Special Washer, 32x100x5 | 2270351000 | 2 |
| 2-20 | ZS715228 | Tapping Screw, pan head 30x10 | | 1 |
| 2-21 | ES711786 | Reed SW. | 2214632200 | 1 |
| 2-22 | BD709582 | PU Plate Block Comp. AP-001/C | 2075179500 | 1 |
| 2-23 | ZS715230 | Screw, countersunk head 26x8 (PC) | | 1 |
| | **ELECTRICAL PARTS BLOCK** | | | |
| 2-24 | EJ709593 | Output Terminal Plate AP-001/C | 2216235000 | 1 |
| 2-25x | EW709604 | PU Cord AP-001/C | 2216434700 | 1 |
| 2-26 | TP709727 | Spacer AP-001/C | 2275289400 | 4 |
| 2-27 | ZS715241 | Tapping Screw 3x16BR | | 4 |
| 2-28 | MB718885 | Cushion Rubber AP-003 | 2088161000 | 4 |
| 2-29 | BT709751 | Power Trans. (U/T, 110/220)/KMA | 2222332800 | 1 |
| 2-30x | BT709762 | Power Trans. (U/T, 240/50)/AST, BSI | 2222334100 | 1 |
| 2-31x | BT709773 | Power Trans. CEE (SEMKO) | 2222334300 | 1 |
| 2-32x | BT709784 | Power Trans. CSA | 2222334400 | 1 |
| 2-33 | TP711011 | Cord Retainer | 2074679000 | 1 |
| 2-34x | TP711022 | Cord Retainer | 2074682600 | 1 |
| 2-35 | TP712001 | Cord Stopper UL | 2088167600 | 1 |
| 2-36x | TP712012 | Cord Stopper 3 Core | 2218512600 | 1 |
| 2-37x | TP709795 | Cord Stopper KMA, CEE (SEMKO) | 2218512900 | 1 |
| 2-38 | BA709828 | P.C Board Comp. (U/T, 110/220)/KMA AP-001/C | R-030207 | 1 |
| 2-39x | BA709830 | P.C Board Comp. (U/T, 240/50)/AST AP-001/C | R-030227 | 1 |
| 2-40x | BA709841 | P.C Board Comp. CSA AP-001/C | R-030226 | 1 |
| 2-41x | BA709852 | P.C Board Comp. CEE (SEMKO) | R-030225 | 1 |
| 2-42x | BA709863 | P.C Board Comp. BSI AP-001/C | R-030228 | 1 |
| 2-43 | ET709874 | Transistor 2SD198 (Q) | 2211444000 | 1 |
| 2-44 | ET709885 | Transistor 2SC1446 (Q) | 2211444100 | 1 |
| 2-45 | ED709896 | Diode 1S1887 | 3756870000 | 4 |
| 2-46 | EC709907 | Metalized/C. 0.047µF 1000V | 2237013990O | 1 |
| 2-47 | EC709918 | Metalized/C. 0.1µF AC125V | 2237014700A | 1 |

**When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.**

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 2-48x | EC709920 | Metalized/C. 0.047μF AC250V | 2233011400 | 1 |
| 2-49 | EF711966 | Fuse 1A 250V | 2214422400 | 1 |
| 2-50x | EF709931 | Fuse 0.5A(T) | 2214419200 | 1 |
| 2-51x | EJ709942 | Fuse Holder AP-001/C | 2216504700 | 2 |
| 2-52 | ES712078 | Seesaw SW. | 2214649400 | 1 |
| 2-53x | ZW709953 | Nut 3M (AP-001/C) | | 1 |
| 2-54x | ZW709964 | Spring Washer 3M Small AP-001/C | | 1 |
| 2-55x | ZW709975 | Spring Washer 3M Large AP-001/C | | 1 |
| 2-56 | EW711955 | AC Cord 2.5M UL | 2217619900 | 1 |
| 2-57x | EW711990 | AC Cord 2.5M 3 Core, SAA | 2217705100 | 1 |
| 2-58x | EW709986 | AC Cord KMA AP-001/C | 2217652400 | 1 |
| 2-59x | EW709997 | AC Cord BSI AP-001/C | 2217706900 | 1 |
| 2-60x | EW710065 | AC Cord CEE (SEMKO) AP-001/C | 2217652500 | 1 |
| 2-61x | EW710741 | AC Cord AST | 2217653100 | 1 |

## 3. PHOTO OF CABINET BLOCK



### 3) CABINET BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 3-1 | BC709007 | Cabinet AP-001 | 2084775100 | 1 |
| 3-2x | BC709121 | Cabinet AP-001C | 2084776900 | 1 |
| 3-3 | TP719853 | Hinge A AP-003 | 2086168700 | 2 |
| 3-4x | ZS711808 | Tapping Screw, pan head 30×10 | | 6 |
| 3-5 | BC709233 | Dust Cover Block Comp. AP-001/C | 2084782100 | 1 |
| 3-6 | TP719897 | Hinge B AP-003 | 2086168800 | 2 |
| 3-7 | ZS712214 | Screw, oval countersunk head 40×10 | | 4 |
| 3-8 | SP709244 | Bottom Case AP-001/C | 2084661100 | 1 |
| 3-9x | SA718762 | Foot (Rubber) AP-003 | 2287451200 | 4 |
| 3-10x | TP709266 | Lock Plate AP-001/C | 2075460200 | 3 |
| 3-11x | ZS718637 | Screw (Special), w/washer 4×12 | 2079592700 | 3 |
| 3-12x | TP720246 | Vinyl Sheet | 2094367800 | 3 |

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| BA709841 | 2-40x |
| BA709852 | 2-41x |
| BA709863 | 2-42x |
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| BC709121 | 3-2x |
| BC709233 | 3-5 |
| BD709582 | 2-22 |
| BL709536 | 1-30 |
| BL719381 | 1-15 |
| BM709356 | 1-6 |
| BT709751 | 2-29 |
| BT709762 | 2-30x |
| BT709773 | 2-31x |
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| EC709920 | 2-48x |
| ED709896 | 2-45 |
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| EJ709593 | 2-24 |
| EJ709942 | 2-51x |
| ES709806 | 1-34x |
| ES709817 | 1-35x |
| ES711786 | 2-21 |
| ES712078 | 2-52 |
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| ET709874 | 2-43 |
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| EW709986 | 2-58x |
| EW709997 | 2-59x |
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| EW710741 | 2-61x |
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| MB719008 | 1-5 |
| MR709402 | 1-8 |
| MR709413 | 1-9x |
| MS709424 | 1-10 |
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| MS709525 | 1-29 |
| MV709514 | 1-25 |
| SA718762 | 3-9x |
| SB631157 | 2-15 |
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| SP709244 | 3-8 |
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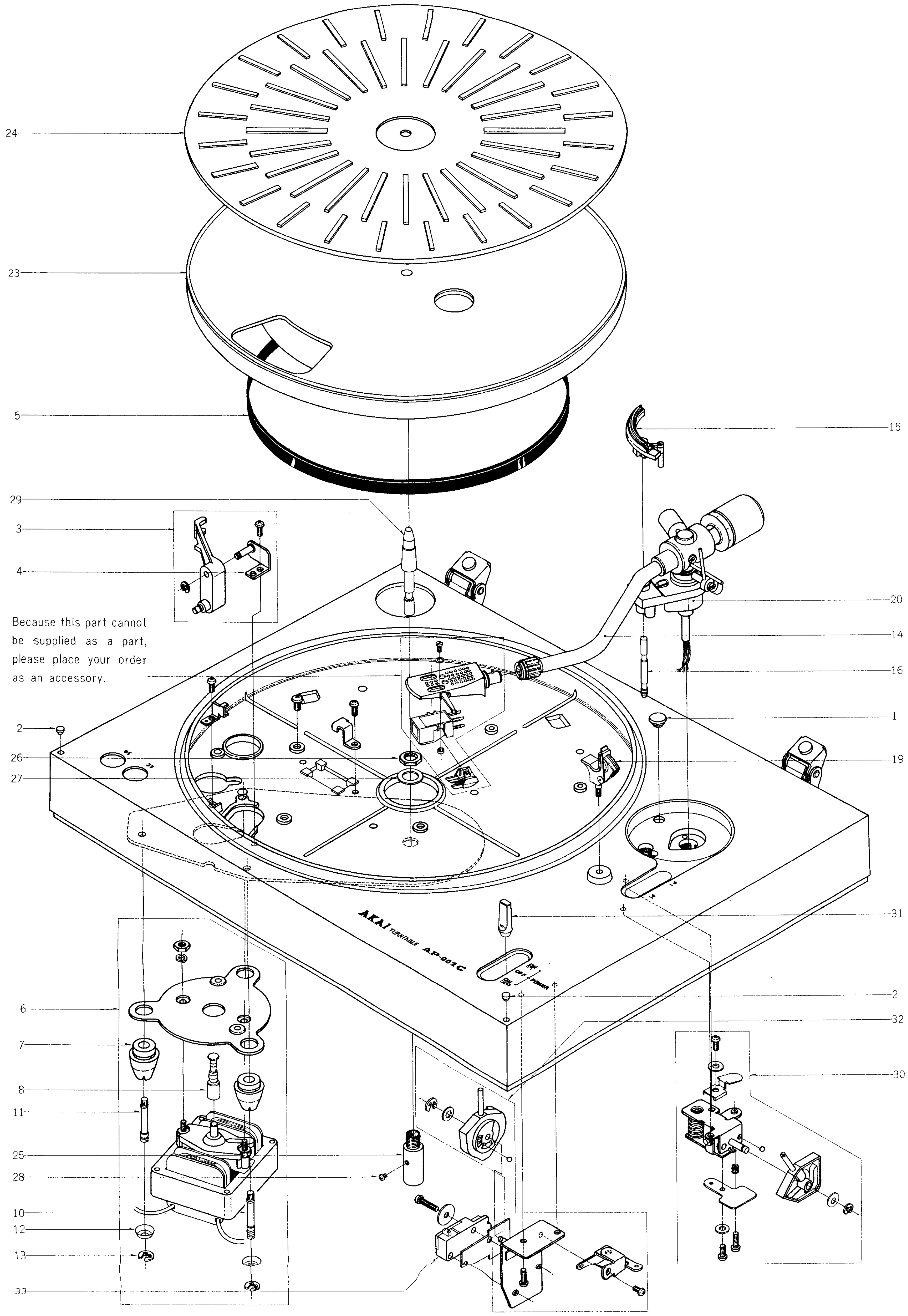
## 1. ILLUSTRATION OF ASSEMBLY BLOCK (1)



Because this part cannot be supplied as a part, please place your order as an accessory.

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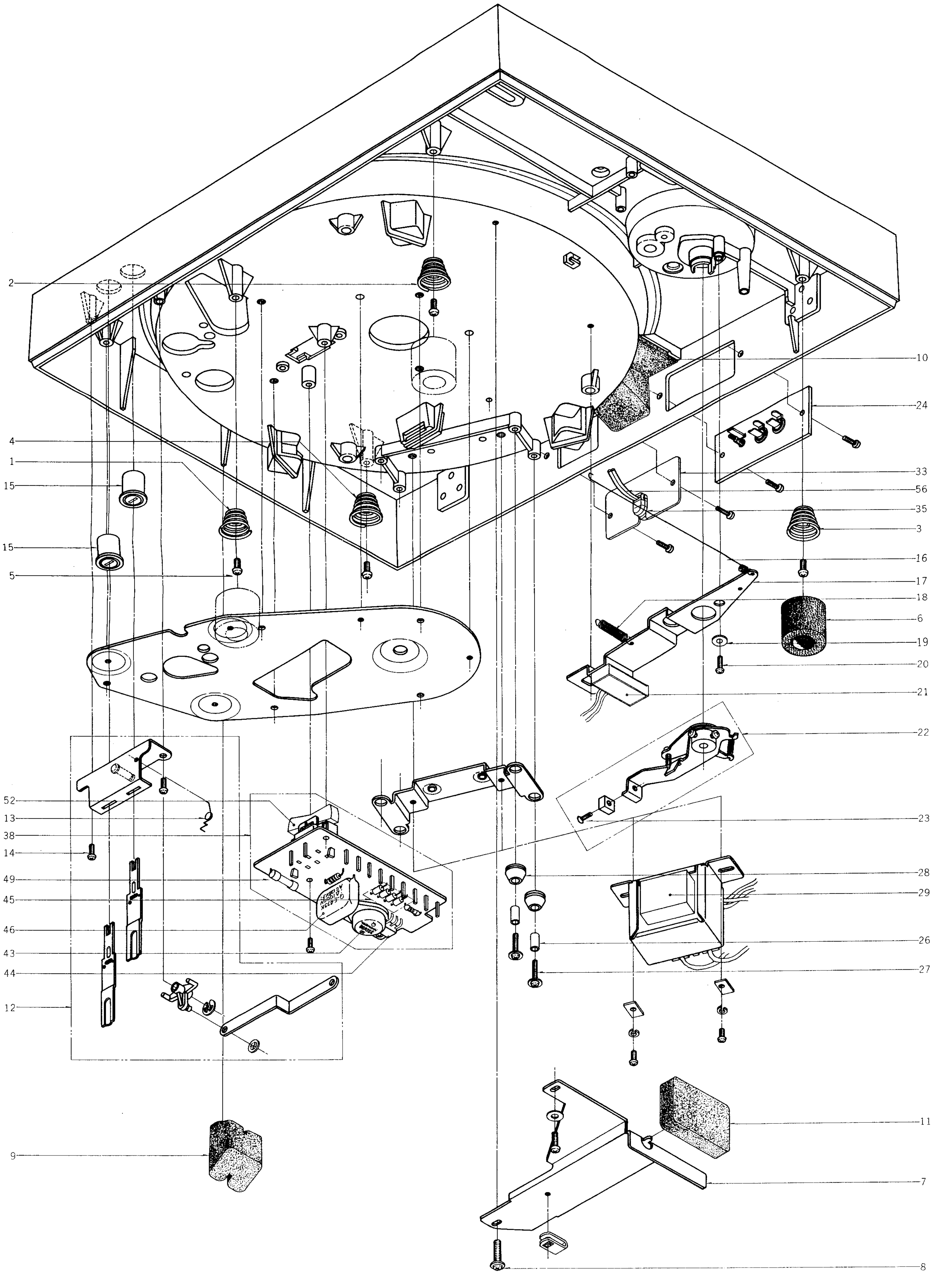
## 2. ILLUSTRATION OF ASSEMBLY BLOCK (2)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